

VACTEST DPP 400 / DPP 400 D

Digital transmitter



VACUUM SOLUTIONS

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Intelligent

Extended measurement range (1200 to $1 \cdot 10^{-4}$ mbar), state-of-the-art microcontroller technology, fully customizable parameters, combination of Piezo and Pirani sensor

Reliable

High industrial standards, robust construction

Efficient

Modular design, plug and play sensor for maximum uptime

Accessories, spare parts and options

- Spare sensor
- Active Sensor Controller
- Connecting cable
- RS485 Interface converter to Bluetooth
- RS485 Interface to USB
- Power supply
- VACTEST Explorer Pro
- Calibration certificate

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	VACTEST DPP 400	VACTEST DPP 400 D
Measurement principle	Piezoresistive / Pirani	Piezoresistive / Pirani
Materials exposed to vacuum	Stainless steel 1.4307, nickel, gold, silicon oxide, tungsten, glass	Stainless steel 1.4307, nickel, gold, silicon oxide, tungsten, glass
Filament material	Tungsten	Tungsten
Measurement range	1200–1 · 10 ⁻⁴ mbar	1200–1 · 10 ⁻⁴ mbar
Overpressure limit	4 bar abs.	4 bar abs.
Measurement uncertainty	< 0.3% full scale (1200–40 mbar)	< 0.3% full scale (1200–40 mbar)
Measurement uncertainty	< 10% of reading (40–2 · 10 ⁻³ mbar)	< 10% of reading (40–2 · 10 ⁻³ mbar)
Repeatability of measurement	±0.1% full scale (1200–40 mbar)	±0.1% full scale (1200–40 mbar)
Repeatability of measurement	±2% of reading (40–2 · 10 ⁻³ mbar)	±2% of reading (40–2 · 10 ⁻³ mbar)
Leakage rate	< 5 · 10 ⁻¹⁰ mbar · l/s	< 5 · 10 ⁻¹⁰ mbar · l/s
Reaction time	< 40 ms	< 40 ms
Serial interface	RS485	RS485
Electrical connection	D-Sub, 15 poles, male	D-Sub, 15 poles, male
Supply voltage	20–30 V	20–30 V
Max. power consumption	2.5 W (relays)	2.5 / 0.8 W (relays / display)
Output signal	0–10 V, RS485	0–10 V, RS485
Setpoint relay	2 dry contacts	2 dry contacts
Relay contact rating	2A, 50 VAC / 2A, 30 VDC, max. 60 VA	2A, 50 VAC / 2A, 30 VDC, max. 60 VA
Operating temperature	+5 ... +60 °C	+5 ... +60 °C
Max. bake-out temperature	150 °C	150 °C
Protection class	IP40 (IP54 with appropriate D-Sub connector)	IP40 (IP54 with appropriate D-Sub connector)
Weight approx.	195 g	195 g
Dimensions (L x W x H)	45 x 66 x 99 mm	45 x 66 x 99 mm
Vacuum connection	DN 16 ISO-KF	DN 16 ISO-KF
Display	Without display	With display

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